IN THE CLAIMS:

Please amend the claims as follows:

1. (Currently Amended) A method for generating a total harmonic distortion reference signal, the method comprising:

generating a triangle wave having a predetermined frequency and a predetermined amplitude; and

providing a band-pass filter configured to pass the predetermined frequency;

filtering the triangle wave through the band-pass filter to produce a sinusoid sine wave having the predetermined frequency and amplitude.

2. (Original) The method of Claim 1, wherein generating the triangle wave further includes:

generating a square wave at the predetermined frequency; and integrating the square wave into the triangle wave.

- 3. (Original) The method of Claim 2, wherein generating a square wave includes activating and deactivating a solid-state switching device.
- 4. (Original) The method of Claim 3, wherein the solid-state switching device includes a transistor.
- 5. (Original) The method of Claim 2, wherein integrating the square wave includes inputting a square wave to an operational amplifier.
- 6. (Original) The method of Claim 1, wherein filtering the triangle wave passes a signal substantially consisting of a sinusoid at the predetermined frequency and selected harmonics of predetermined amplitudes.
- 7. (Original) The method of Claim 6, wherein the predetermined frequency is selected from a plurality of frequencies.
- 8. (Currently Amended) An apparatus for generating a total harmonic distortion reference signal, the apparatus comprising:
 - a triangle wave generator configured to generate a triangle wave having a predetermined frequency; and

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- a filter configured to receive the triangle wave from the triangle wave generator, the filter being configured to pass a signal substantially consisting of a sinusoid sine wave at the predetermined frequency and selected harmonics of the sine wave having [[of]] predetermined amplitudes.
- 9. (Original) The apparatus of Claim 8, wherein the triangle wave generator is configured to receive a clock signal.
- 10. (Original) The apparatus of Claim 9, wherein the clock signal is an integer multiple of the desired frequency.
- 11. (Original) The apparatus of Claim 8, wherein the predetermined frequency includes a frequency selected from a plurality of frequencies.
- 12. (Original) The apparatus of Claim 11, wherein the predetermined frequency is adjustably selected from a plurality of frequencies.
 - 13. (Original) The apparatus of Claim 8, wherein the triangle wave generator includes:
 - a square wave generator configured to generate a square wave having the predetermined frequency; and
 - an integrator configured to integrate the square wave into the triangle wave.
- 14. (Original) The apparatus of Claim 8, further comprising an input voltage follower configured to input a first signal from the output of the triangle wave generator and to output to the filter a second signal based upon the first signal.
- 15. (Original) The apparatus of Claim 8, further comprising an output voltage follower configured to receive a third signal from the filter and to output a fourth signal based upon the third signal.
- 16. (Original) The apparatus of Claim 13, wherein the square wave generator includes a solid-state switching device.
- 17. (Original) The apparatus of Claim 13, wherein the integrator receives a square wave at an input of an operational amplifier.

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- 18. (Original) The apparatus of Claim 8, wherein the filter is configured to pass a signal substantially consisting of a sinusoid at the predetermined frequency and selected harmonics of predetermined amplitudes.
 - 19. (Original) The apparatus of Claim 18, wherein the predetermined frequency is a frequency predetermined from a plurality of frequencies.
- 20. (Original) An apparatus for generating a total harmonic distortion reference signal, the apparatus comprising:
 - a Schmidt trigger oscillator configured to output a square wave;
 - an integrator configured to integrate the square wave into a triangle wave; and
 - a generalized impedance converter configured to filter the triangle into a signal substantially consisting of a sinusoid at the predetermined frequency and selected harmonics of predetermined amplitudes.
- 21. (Original) The apparatus of Claim 20, wherein the generalized impedance converter is further configured as an active bandpass filter.
- 22. (Original) The apparatus of Claim 21, wherein the active bandpass filter is a second order filter.
- 23. (Original) The apparatus of Claim 20, wherein a first voltage follower inputs the triangle wave from the integrator and outputs the triangle wave to the generalized impedance converter.
- 24. (Original) The apparatus of Claim 20, wherein a second voltage follower inputs the sinusoid wave from the generalized impedance converter and outputs the signal substantially consisting of a sinusoid at the predetermined frequency and selected harmonics of predetermined amplitudes to a unit under test.
- 25. (Original) The apparatus of Claim 20, wherein the Schmidt trigger includes a metal film resistor.
- 26. (Original) The apparatus of Claim 20, wherein the integrator includes a Teflon film capacitor.

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- 27. (Original) The apparatus of Claim 20, wherein the generalized impedance converter includes a metal film resistor.
- 28. (Original) The apparatus of Claim 20, wherein the generalized impedance converter includes a Teflon film capacitor.
- 29. (Original) The apparatus of Claim 20, wherein the Schmidt trigger includes an integrated circuit operational amplifier.
- 30. (Original) The apparatus of Claim 20, wherein the integrator includes an integrated circuit operational amplifier.
- 31. (Original) The apparatus of Claim 20, wherein the generalized impedance converter includes an integrated circuit operational amplifier.
 - 32. (Original) The apparatus of Claim 20, wherein the apparatus is potted.

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